

Pipe Pressure Sensor

Featuring LoRaWAN®

MS800-PP

MoviSight



MS800-PP is designed for measuring pipe pressure in harsh environments and transmitting data using LoRaWAN® technology. With this low power consumption technology, MS800-PP can work up to 10 years with 19000 mAh battery. Combining with MoviSight LoRaWAN® gateway and MoviSight IoT Cloud solution, users can manage all sensor data remotely and visually. MS800-PP is widely used for applications like smart buildings, pipeline and tank systems monitoring, etc.

◆ Features

- High precision and corrosion resistance
- Ultra-wide-distance transmission up to line of sight of 10km
- IP67 waterproof enclosure for harsh environment applications
- Built-in 19000 mAh replaceable battery and work for 10 years without replacement
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with MoviSight IoT Cloud solution

◆ Applications

- Pipes and tanks pressure monitoring
- Oil & Gas monitoring
- Water leak detection
- Pump monitoring

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Pressure Type	Gauge Pressure
Range	0 - 1600 kPa (16 Bar)
Accuracy	± 0.5% FS
Resolution	1 kPa (0.01 Bar)
Overload	150% FS
Long-term Stability	± 0.3% FS/year
Process Connection	G 1/2" Male
Operation	
Power On & Off	NFC, Power Button (Internal)
Configuration	Mobile App (via NFC) or PC software(via USB Type-C)
Physical Characteristics	
Cable Length	1.5 m
Power Supply	19000 mAh Li-SOCL ₂ battery (ER34615)
Battery Life*	10 years (10 min interval)
Operating Temperature	-30°C to +70°C (Transceiver)/-10°C to +70°C (Pipe Pressure Sensor)
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67(Transceiver)/IP65(Pipe Pressure Sensor)
Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Pipe Sensor: 67.5 × φ27 mm (2.7 × φ1.1 in)
Installation	Pole, wall or DIN Rail Mounting
Approvals	
Regulatory	CE, FCC, RoHS

* Tested under laboratory conditions and for guideline purposes only.